

Waterfront Maintenance Note Number 12

**Close-In Weapons System (CIWS) Gun Ammo Handling  
System (GAHS) Overhaul Procedure**

- Ref: (a) CIWS FLEET ADVISORY 02/99  
(b) SW221-JO-MMI-010/MK15, Intermediate Maintenance  
Technical Manual with Illustrated Parts Breakdown  
(c) MRC 7112/R07 M-18R, Gun Firing Test (PSOT14)  
(d) MRC 7112/R07 Q-4, Block 1 Baseline 0/1  
Teardown/Inspection  
(e) MRC 7112/R07 Q-12, Block 1 Baseline 2 or Block 1B  
Teardown/Inspection  
(f) MRC 7112/R07 S-2R, Remove, Disassemble, and Clean Gun  
Body

1. Purpose: To establish procedures for the schedule and conduct  
of a CIWS GAHS overhaul.

2. Background: IAW ref a, CIWS GAHS overhauls are recommended to  
maintain good working order. This waterfront maintenance note  
lists SERMC and ship's force responsible actions that must be  
completed as a part of the CIWS GAHS overhaul process.

3. Procedure:

a. Ship's Force (S/F) shall:

- 1) Coordinate overhauls through their respective  
Maintenance Teams (Port Engineer and Ship's  
Superintendent), submitting a 4790/2K (2K) for each GAHS  
to be overhauled.
- 2) Accomplish Gun Firing Test IAW ref c (Provide SERMC  
detailed results printout).
- 3) Accomplish preliminary steps a-k, and steps 1, 3a, 4,  
and 5 of refs d or e, as applicable.
- 4) Accomplish preliminary steps a through s and steps 1a  
through 1al of ref f.
- 5) Provide a minimum of two personnel TAD to SERMC for  
duration of GAHS overhaul (normally one week).

- 6) Deliver GAHS to SERMC code 956J (CIWS Repair Shop) to include the following components:
  - (a) M61A1 Machine Gun
  - (b) Transfer Unit
  - (c) Exit Unit
  - (d) Entrance Unit
  - (e) Entrance And Exit Drum Covers
  - (f) Entrance And Exit Scoop Disks
  - (g) All Conveyor Chuting And Elements
  - (h) Gun Barrels
  - (i) Angle Drive Unit
- 7) During overhaul, and prior to return of GAHS, accomplish steps 6, 7, and 8 of refs d or e, as applicable.

**Note:** Overhauled components will not be re-installed until a SERMC representative has verified the required maintenance actions have been accomplished
- 8) Verify serial numbers and witness the OPTTEST of the overhauled GAHS on the stand-alone gun assembly (SAGA). Upon completion of OPTTEST S/F will sign for acceptance.
- 9) Assist in removal of overhauled GAHS from the SAGA and accompany SERMC personnel while transporting GAHS back to the ship.
- 10) Reinstall GAHS IAW:
  - (a) Steps 13 through 20 of refs e or f, as applicable.
  - (b) Steps 8 and 9 of ref f.
- 11) Conduct an OPTTEST IAW ref c, witnessed by a SERMC representative and a S/F Commissioned Officer (Explosive Ordnance Safety Observer qualified). Upon successful completion of the OPTTEST, the observing officer shall sign for the successful completion of the overhaul and refurbishment. A detailed signed copy of PSOT 14 will be provided to SERMC personnel.
- 12) Carefully schedule tasks to ensure there are no conflicting evolutions scheduled concurrently (i.e. inspections, power outages, non-skidding).

b. SERMC shall:

- 1) Accomplish overhaul procedures IAW ref b, ensuring that all components of the GAHS are cleaned, inspected, and repaired as necessary.
- 2) Provide oversight and guidance to S/F throughout the procedure.

4. Points of Contact: For further guidance or information, contact the CIWS Repair Shop (code 956H) at 904-270-5126 x3087 or refer to <http://help.phdnswc.navy.mil>.